Hematology Normal, Therapeutic & Critical Ranges					
Hematology Normal & Therapeutic Ranges		Critical Values			
Parameter	Reference Range	Therapeutic Range	Below	Above	
WBC	4 - 11X10^3/uL		2.0 X10^3/uL	50.0 X10^3/uL	
RBC Male	4.63 - 6.08X10^6/uL				
Female	3.93 - 5.22X10^6/uL				
HGB Male	13.7 - 17.5 g/dL		6.0 g/dL	20.0 g/dL	
Female	11.2 - 15.7 g/dL		6.0 g/dL	20.0 g/dL	
HCT Male	40.1 - 51.0%		18.0%	60.0%	
Female	34.1 - 44.9%		18.0%	60.0%	
MCV Male	80 - 100 fL				
MCH	25.7 - 32.2 pg				
MCHC	32 – 37 g/dL				
PLATELETS	150 - 400 X10^3/uL		26X10^3/uL	999X10^3u/L	
MPV	9.4 - 12.4 Fl				
RDW	11.6 - 16.5%				
Neutrophil % auto	37.5 - 75.5%				
Neutrophil % manual	37 – 75%				
Neutrophil #	1.40 - 6.50X10^3/uL				
Lymphocyte % auto	20.0 - 55.5%				
Lymphocyte % manual	20 – 56%				
Lymphocyte #	1.32 - 3.57X10^3/uL				
Monocyte % auto	2.5 -12.0%				
Monocyte % manual	2 – 12%				
Monocyte #	0.30 - 0.82 X10^3/uL				
Eosinophil % auto	0.0 - 6.0%				
Eosinophil % manual	0 – 6%				
Eosinophil #	0.04 - 0.54 X10^3/uL				
Basophil % auto	0.0 - 2.5%				
Basophil % manual	0 – 3%				
Basophil #	0.01 - 0.08 X10^3/uL				
Band % manual	0 – 5%				
Retic %	0.51 - 1.81%				
Retic#	0.0284 – 0.1212 X10^6/uL				
NRBC /100 WBC	0.0 – 0.2				
NRBC#	0.00 - 0.01 x 10^3/uL				
NRBCRE%	0.0 - 0.2%				

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IG%	0.00 - 0.3%			
IG#	0.01-0.16X10^3/uL			
IRF Male	5.1 - 16.6 %			
Female	5.8 – 19.2 %			
PROTHROMBIN	9.1 - 13.2 sec			
APTT	23.3 - 36.6 sec	63.0 -102.1 sec		>150 sec
INR	0.8 - 1.2			>4.5
INR- Low Intensity		2.0 - 3.0 sec		
INR- High Intensity		2.5 - 3.5 sec		
FACTOR VIII	55 - 200%		<20%	
FIBRINOGEN QFA	173 - 454 mg/dL		<100 mg/dL	
D-DIMER HS 500	<=500ng/mL/DDU			
HEPARIN	0.30 - 1.00 IU/mL			>1.10 IU/mL
HEPARIN-		0.30 - 0.70 IU/mL		>1.10 IU/mL
Unfractionated				
HEPARIN- Low				>1.10 IU/mL
Molecular	_			
FDP	<5			
SICKLE CELL SCREEN	Negative			
ESR Male< Age 50	<15 mm/hr			
Male> Age 50	<20 mm/hr			
Female< Age	<20 mm/hr			
50 Female> Age	<30 mm/hr			
50	<50 IIIII/III			
CSF-Total Nucleated	0 - 5			
Cells				
MN%	15 - 80			
PMN%	0 - 6			
SEMEN ANALYSIS				
Volume	2 - 5 ml			
Motility	40 - 100%			
Forward	Grade 2 - 4			
Progression				
Liquefaction	< 30 min			
рН	7.5 - 8.0			
Sperm Count	>10 mil/mL			
Morphology	>=40% should be			
200.000	normal			
BINAXNOW				POSITIVE
MALARIA SMEAR				POSITIVE

All critical values must be reported to the ordering physical or ward immediately. The performing tech must document in the computer: date, time, name of person receiving results, read back and tech's initial.

Note: Hematology critical values that occur within 72 hours during the same admission do not need to be called to the responsible provider. Critical documentation will be entered into VISTA in the following manner:

CODE:	MESSAGE DISPLAYED:			
CRV1	Results verified at (date, time & initial)		
CRV2	Ordering Provider being contacted			
CRV3	Results called to (Dr's name & time)			
CRV4	Attempted and Failed to Contact at			
	(insert date and time)			
CRV5	Will Continue to Attempt to Notify			
	Provider			
RBAV	Repeated Back and Verified at (insert			
	date and time)			
PCRC	Previous Critical Results Called on (ins	ert		
	date) at (insert time)			
INTEGTIONS DISEASE				
INFECTIOUS DISEASE CLINIC CRITICAL				
VALUES				
Because many				
patients followed in				
this clinic are expected				
to have neutropenia,				
anemia or				
thrombocytopenia, ID				
clinic physicians				
must be notified only				
in the case of WBC				
<2000 cu/mm, Hct				
<18% or Plt <25000				
cu/ mm.				
D				
DIFFERENTIALS				
Differentials cell				
counts will be added				
to the following CBC				

				1
specimens if not				
already ordered:				
A. WBC <4,000 or >				
15,000/ cu mm				
B. Outpatients or new				
admissions with:				
	WBC <4,000 or <11,000	/cu mm		
C. Smears will be	RBC <3.5 X10* or > 5.5 X10*			
made and saved for a				
week on all outpatient				
and new admission				
samples, regardless if				
a diff was performed.				
D. Any smears	HGB <10 or > 17.0			
showing abnormal	g/dL			
cells or parasites are				
to be examined by the				
Hematology				
supervisor and Clinical				
Pathologist.				
The primary physician	MCV <80 or > 105 fL			
must be notified and				
the Clinical pathology				
resident or attending				
contacted at that				
physician's request.				
Notification should be d	nt in VISTA.			
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